

respectively, includes a recess having disposed therein a corresponding inner subframe thereby defining a test chamber between said upper and lower frames for an incoming test gas sample entering said defined test chamber and in which said films are at least one of adhered and screw-fastened with the frame portions onto which they are respectively stretched and in which each recess is disposed in a region of a corresponding outer subframe facing away from the test chamber and wherein one of said inner subframes is equipped with a lip seal, said lower frame being positioned onto a margin of a plate-form bottom, said upper frame including a support provided with a steel profile, said steel profile being angled and at least partially encompassing said upper frame from above and from the outside thereof, said upper frame being fastened on said steel profile so as to float axially relative to said lower frame wherein the steel profile also partially encompasses said lower frame when the defined test chamber is closed, said upper and lower frames each being circularly formed and comprised of polyamide, said upper and lower frames being connected at one end across an articulation.

22. A leak detector as claimed in Claim 21, wherein the film of the lower frame is equipped with a central connection port and a line detachably coupled with said connection port.

23. A leak detector as claimed in Claim 22, wherein the central connection port is a tube section made from a synthetic material.

24. A leak detector as claimed in Claim 23, wherein the detachably coupled line in the region facing the central connection port is a synthetic corrugated tube encompassing said connection port when a connection is made.

25. A leak detector as claimed in Claim 24, wherein the synthetic material tube section and/or corrugated tube are comprised of polyamide.